VORONIN, L.G.

Some problems in the comparative physiology of higher nervous activity. Vest. Mosk. un. 10 no.45:207-217 Ap-My '55.
(Nervous system) (MLRA 8:8)

VORONIN, L.G.

PETROVSKIY, I.G.; OPARIN, A.I.; MEYER, K.I.; RUBIN, B.A.; SHAPOSHNIKOV, V.N.; STANKOV, S.S.; BELOZERSKIY, A.N.; KRENCHETOVICH, L.M.; KOMARNITSKIY, N.A.; VORONIN, L.G.; ZENKEVICH, L.A.; LATYSHEV, B.S.; KUDRYASHOV, B.A.; YUDINTSEV, S.V.; KLYUSHNIKOVA, Ye.S.; TSESHINSKAYA, N.I.; GORBUNOVA, N.P.; SIZOVA, T.P.

Lev Ivanovich Kursanov; obituary; nekrolog. Vest.Mosk.un.10 no.2: 183-184 F '55. (MIRA 8:5)
(Kursanov, Lev Ivanovich, 1876-1954)

VORONIN, L.G., doktor biologicheskikh nauk, professor.

Study of the function of the higher nervous system. Nauka i zhizn' 22 no.5:25-27 My '55 (MLRA 8:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Nervous system)

VORONIN, L.G.

"SOME DATA ON THE PHYLOGENESIS OF THE ANALYTICO-SYNTHETIC ACTIVITY OF THE NERVOUS SYSTEM"

pp. 217, Reports given at the 20th International Congress of Physiologists, Brussels, 30 Jul-4 Aug 56

Translation E-5368

VORONIN, L.G.

VORONIN, L.G.; KRUSHINSKIY, L.V., otvetstvenyy red.

[Lectures on the comparative physiology of the higher nervous activity] Lektsii po sravnitel'noi fiziologii vysshei nervnoi deiatel'nosti. Moskva. Izd-vo moskovskogo universiteta, 1957. 182 p. (MIRA 11:1)

(CONDITIONED RESPONSE)

VORONIN, L.G.

Promote combined efforts of physiologists and psychologists. Vop. psikhol. 3 no.1:172-179 Ja-F '57. (MLRA 10:3)
(Psychology, Physiological)

YORONIN, L.G.

Problems in the physiology of the higher nervous activity at the 20th International Congress of Physiologists. Zhur.vys.nerv.deiat. 7 no.1:157-163 Ja-F '57. (MIRA 10:10)
(NERVOUS SYSTEM)

VORONIN, L. G.

Country	:	USSR
Category	:	Human and Animal Physiology. Comparative Physiology. T
Abs. Jour.	:	Ref Zhur-Biol., No 23, 1958, 106120
Author	:	Voronin, L. G.
Institut.	:	-
Title	:	Comparative Physiological Studies of Higher Nervous Activity.
Orig. Pub.	:	Zh. vyssh. nervn. deyat-sti, 1957, 7, No 6, 831-840

Abstract : The main tendency in the evolution of higher nervous activity leads in the direction of physiological mechanisms development. It finds its expression in the fact that organs undergo adaptation processes at the expense of temporary connections, conditioned reflexes, and associations. Already in lower vertebrates and higher nor vertebrates one is able to detect "six phenomena ranges" established by I. P. Pavlov in his experiments on dogs: 1) stimulation; 2) inhibi-

Card: 1/3

11

Country : USSR
Category : Human and Animal Physiology. T
Comparative Physiology.
Abs. Jour. : Ref Zhur-Biol., No 23, 1958, 106120

Author :
Institut. :
Title :

Orig Pub. :

Abstract : tion; 3) closing and opening; 4) irradiation
(cont) and concentration of stimulation and inhibition; 5) reciprocal * of nervous processes; 6) analysis and syntnesis. Adaptive conditioned reflex reactions to stimuli, which are closely related to environmental agents of the given animal, are developed with the same speed by all animal species. The development of analyzers and the unification of their activities

*induction

Card: 2/3

Country : USSR
Category : Human and Animal Physiology. Comparative Physiology. T
Abs. Jour. : Ref Zhur-Biol., No 23, 1958, 106120

Author :
Institut, :
Title :

Orig. Pub. :

Abstract (cont) : help to analyze and synthesize external influences. As the nervous system developed, the characteristics of nervous processes which ensured the formation of increasingly complicated temporary connections, developed as well. Thus, conditioned reflexes in response to complicated stimuli form the faster the higher the development of the nervous system. -- A. M. Rybinov-skaya

Card: 3/3

12

VORONIN, L.G., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; SOKOLOV, Ye.N., red.; VINOGRADOVA, O.S., red.; GOLUBEVA, E.A., red.; TARASOVA, V.V., tekhn.red.

[Orientation reflex and exploratory behavior] Orientirovochnyi refleks i orientirovochno-issledovatel'skaia deiatel'nost'. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1958. 350 p. (MIRA 12:2)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. 2. Moskovskiy gosudarstvennyy universitet, Institut defektologii Akademii pedagogicheskikh nauk RSFSR (for Sokolov). 3. Institut defektologii Akademii pedagogicheskikh nauk RSFSR, Moskva (for Vinogradova). (REFLEXES) (ORIENTATION)

VOROHIN, L.G., GUSEL'NIKOV, V.I.

Materials on bioelectric reactions in the brain of cyprinoid fishes, turtles, and pigeons. Nauch.dokl.vys.shkoly; biol.nauki no.1:64-71 '58 (MIRA 11:8)

1. Predstavlena kafedroy fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(ELECTROENCEPHALOGRAPHY)
(CARP)
(TURTLES)
(PIGEONS)

VORONIN, L. G.

ROZHE, A. [Roger, A.]; VORONIN, L.G.; SOKOLOV, Ye.N.

Electroencephalographic study of a temporary connection during the extinction of the orientation reflex in man [with summary in English]. Zhur.vys.nerv.deiat. 8 no.1:3-16 Ja-F '58. (MIRA 11:3)

1. Kafedra vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta i Institut natsional'noy gigiyeny, Marsel', Frantsiya.
(ELECTROENCEPHALOGRAPHY,
in temporary connections during extinction of orientation reflex (Rus)
(REFLEX,
orientation, EEG of temporary connections during extinction (Rus)

VORONIN, L.G., doktor biol.nauk

Materials on the physiology of higher nervous activity in fishes. Trudy sov.ikht.kom. no.8:23-30 '58. (MIRA 11:11)

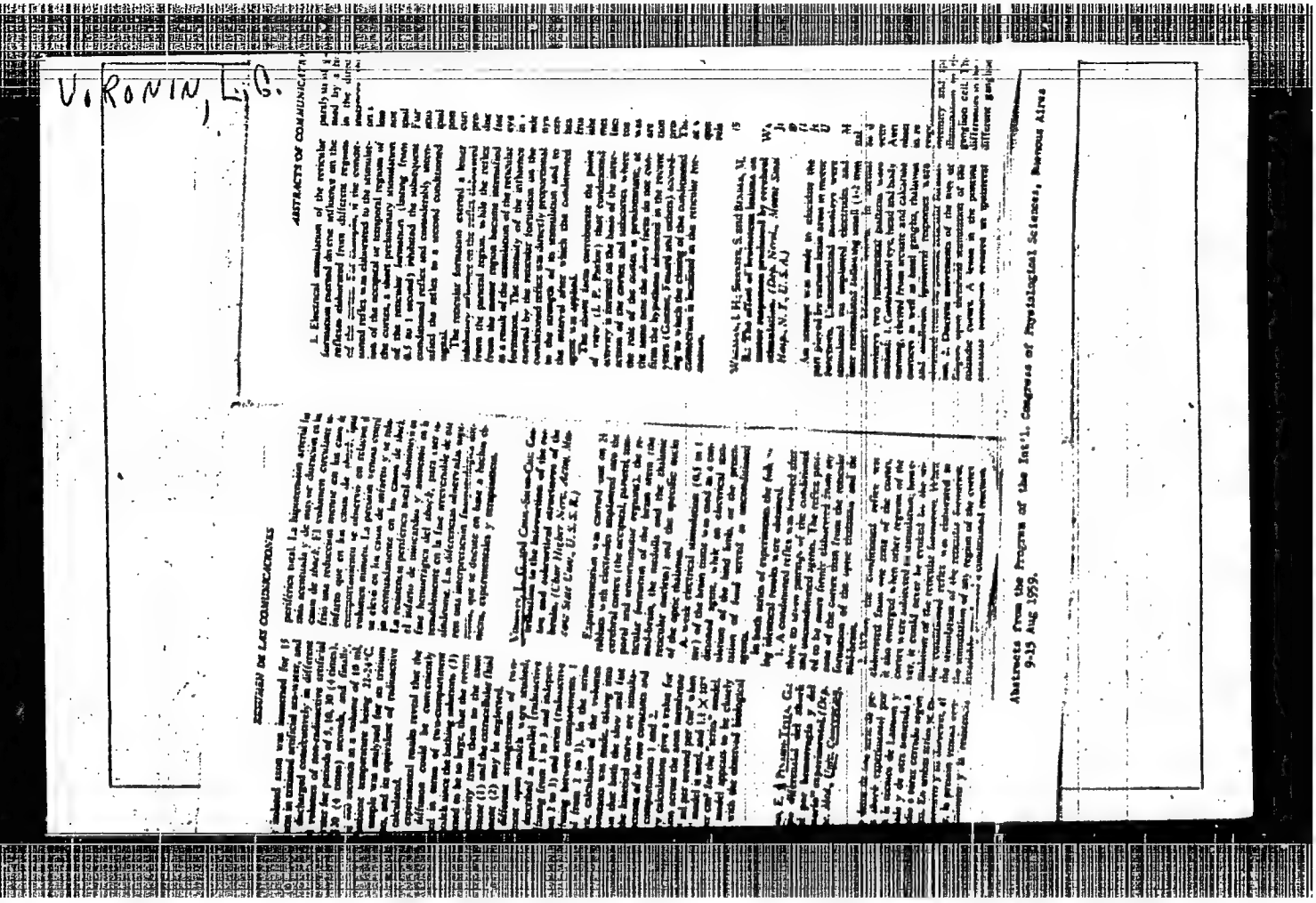
1. Kafedra fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Fishes-- Physiology) (Conditioned response)

VOROBIN, L.G.

Nikolai Apollinar'evich Rozhanskii; an obituary. Zhur.vys.nerv. deiat. 8 no.1:154-156 Ja-F '58. (MIRA 11:1)
(ROZHANSKII, NIKOLAI APOLLINAR'EVICH, 1884-1957)

VORONIN, L.G.

Brief news. Zhur.vys.nerv.deiat. 8 no.3:470-472 My-Je '58
(PSYCHOLOGY) (MIRA 11:8)



VORONIN, L.G.

Abstracts from the Papers of the Intl. Congress of Physiological Sciences, Buenos Aires 9-15 Aug 1959.

[redacted], L. G.

"Contribution To The Interaction Of The Cortex And Subcortical Structures Of The Brain."

report submitted for the 21st International Congress of Physiological Sciences, Buenos Aires, 9-15 Aug 1959.

VORONIN, L.G.; SOKOLOV, Ye.N.(Moskva)

Study of higher neurodynamics ("Problems in studying higher neurodynamics in connection with problems in psychology." Reviewed by L.G.Voronin, E.N.Sokolov). Vop.psikhol. 5 no.2:185-188 Mr-Ap '59. (MIRA 12:6)

(Psychology, Physiological)

VORONIN, L.G.; SOKOLOV, Ye.N.; U BAO-KHUA [U Pao-hua]

Typological peculiarities of the orienting reflex in man. Vop. psikhol. 5 no.6:73-88 N-D '59. (MIRA 13:4)

1. Kafedra fiziologii vysshey nervnoy deyatel'nosti i Kafedra psikhologii Moskovskogo gosudarstvennogo universiteta.
(ORIENTATION)

VORONIN, L.G.; GUSEL'NIKOV, V.I.

Some comparative physiological data on bioelectrical reactions of the brain. Zhur.vys.nerv.deiat. 9 no.3:398-408 My-Je '59. (MIRA 12:9)

1. Chair of Higher Nervous Activity, Moscow University, and Laboratory of Comparative Physiology, Institute of Higher Nervous Activity, U.S.S.R. Academy of Sciences, Moscow.
(BRAIN - physiology)

VORONIN, L.G.; NAPALKOV, A.V.

Methodical process in the formation of complex systems of motor conditioned reflexes in animals. Zhur.vys.nerv.deiat. 9 no.5:788-791 S-O '59. (MIRA 13:3)

1. Kafedra vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(REFLEX CONDITIONED)

VORONIN, L.G. (Moskva)

Significance of the evolution theory of Charles Darwin in the physiology of higher nervous activity. Zhur. vys. nerv. deiat. 9 no.6:799-806 N-D '59. (MIRA 13:9)
(NERVOUS SYSTEM) (EVOLUTION)

VORONIN, L.G.

New physiological journal. Zhur. vys. nerv. deiat. 9 no.6:948 N-D '59. (MIRA 13:9)

(CZECHOSLOVAKIA—NEUROLOGY—PERIODICALS)

VORONIN, L. G.; TOLMASSKAYA, E. S.; GUSEL'NIKOVA, K. G.; GUSEL'NIKOV, V. I.
(Moskva)

Ob izmeneniyakh funktsional'nogo sostoyaniya nespetsificheskikh i spetsificheskikh sistem pod vliyaniyem aminazina

report submitted for the First Moscow Conference on Reticular Formation, Moscow, 22-26 March 1960.

VORONIN, L.G.

Mechanisms of voluntary movements. Zhur. vys. nerv. deiat., 12 no.4:569-577 Jl-Ag '62. (MIRA 17:11)

1. Chair of Physiology of Higher Nervous Activity, Lomonosov State University, Moscow.

VORONIN, L.G.; IORDANIS, K.A.

Comparative physiological analysis of complex conditioned reflex movements. Nauch. dokl. vys. shkoly; biol. nauki no.1:59-67 '60. (MIRA 13:2)

1.Rekomendovana kafedroy fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(CONDITIONED RESPONSE)

VORONIN, L.G.; SOKOLOV, Ye.N.

Skin galvanic reaction during the combination of two acoustic stimuli. Zhur. vys. nerv. deiat. 10 no. 1:3-9 Ja-F '60. (MIRA 14:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(CONDITIONED RESPONSE) (SKIN)

VORONIN, L.G.

"Physiological principles of the higher nervous activity" by A.B. Kogan. Reviewed by L.G. Voronin. Zhur. vys. nerv. deiat. 10 no. 5:804-807 S-O '60. (MIRA 13:12)
(NERVOUS SYSTEM) (KOGAN, A.B.)

VORONIN, L. G. and NAPALKOV, A. V.

"Systematics in the Working of the Head Brain and Some Problems in Cybernetics."

report to be submitted for the Third Intl. Congress on Cybernetics, Namur, Belgium, 11-15 Sep 1961

Chair of Higher Nervous Activity, Moscow State Univ. im. M. V. Lomonosov.

VORONIN, L.G.; GUSEL'NIKOVA, K.G.; IORDANIS, K.A.; BETELEVA, T.G.; LINKOVA, N.V.; POLYANSKIY, V.B.

Effect of electric stimulation of the reticular formation on conditioned reflex activity. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 6:195-202 '61. (MIRA 14:12)

1. Iz Laboratorii sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti, zav. - L.G.Voronin.
(CONDITIONED RESPONSE)

VORONIN, L.G.; IORDANIS, K.A.

Relationship between inhibition and excitation processes in complex motor conditioned reflex activities. Zhur. vys. nerv. deyat. 11 no.1:99-105 Ja-F '61. (MIRA 14:5)

1. Chair of Higher Nervous Activity, Moscow University.
(CONDITIONED RESPONSE)

VORONIN, L.G.

Physiological mechanisms of motor habits. Zhur. vys. nerv.deiat. 11 no.3:385-393 My-Je '61. (MIRA 14:7)

1. Chair of Physiology of Higher Nervous Activity, Moscow University.
(CONDITIONED RESPONSE)

VORONIN, L.G.

Comparative and physiological data on the function of the reticular formations. Zhur. vys. nerv. deiat. 11 no.5:795-805 S-O '61.
(MIRA 15:1)

1. Chair of Physiology of the Higher Nervous Activity, Moscow University.
(BRAIN)

VORONIN, L.G.; TOLMASSKAYA, E.S.; GUSEL'NIKOVA, K.G.; GUSEL'NIKOV, V.I.

Electrophysiological studies on the mechanism of action of aminazine. Zhur.nevr.i psikh. 61 no.2:208-217 '61. (MIRA 14:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut psikhiatrii (dir. - prof. V.M.Banshchikov) Ministerstva zdravookhraneniya i kafedra vysshey nervnoy deyatel'nosti (zav. - prof. L.G.Voronin) Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(CHLORPROMAZINE) (ELECTROENCEPHALOGRAPHY)

VORONIN, L.G., NAPALKOV, A.V.

"On the problemn of regularities in forming complex systems of conditioned reflexes."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

VORONIN, L.G.; KALYUZHNYY, L.V.; ZAKHAROVA, I.N.

Electroencephalographic data on the role of the lateral and ventromedian nuclei of the hypothalamus in the closing of alimentary temporary connections. Zhur. vys. nerv. delat. 15 no.2:364-373 Mr-Ap '65. (MIRA 18:5)

1. Kafedra fiziologii vyshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

VORONIN, L.G.; KOTLYAR, B.I.

Cortical electrical activity during the process of forming and reinforcing motor food and defense conditioned reflexes. Zhur. vys. nerv. deiat. 13 no.5:917-927 S-O'63 (MIRA 16:11)

1. Chair of Physiology of Higher Nervous Activity, Moscow University.

VORONIN, L.G.; GUSEL'NIKOVA, K.G.; GUSEL'NIKOV, V.I.

Some data on the relationship between slow and impulse activity of the paleocortex in the lizard. Zhur. vys. nerv. deiat. 14 no.2: 326-336 Mr-Ap '64. (MIRA 17:6)

1. Chair of Physiology of Higher Nervous Activity, Moscow University.

VORONIN, L.G.; GUSEL'NIKOV, V.I.

Phylogeny of internal mechanisms of analytical and synthetic activity of the brain. Zhur.vys.nerv.deiat. 13 no.2:193-206 Mr-Ap'63. (MIRA 16:9)

1. Chair of Physiology of Higher Nervous Activity, Moscow University.
(PHYSIOLOGY, COMPARATIVE) (BRAIN)
(NERVOUS SYSTEM—VERTEBRATES)

ACC NR: AP7000908 SOURCE CODE: UR/0245/66/000/006/0087/0094

AUTHOR: Voronin, L. G.; Konovalov, V. F.

ORG: Department of the Physiology of Higher Nervous Activity, MGU (Kafedra fiziologii vysshey nervnoy deyatel'nosti MGU); Institute of Higher Nervous Activity and Neurophysiology, AN SSSR, Moscow (Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR)

TITLE: Electrographic data on the work of "biological clocks" in the human brain

SOURCE: Voprosy psikhologii, no. 6, 1966, 87-94

TOPIC TAGS: neurophysiology, biologic clock, circadian rhythm, central nervous system, electrophysiology

ABSTRACT: Subjects were examined polygraphically in a darkened, soundproof room. EEG's, skin galvanic, and oculomotor reactions were recorded using an eight-channel Alvar EEG. A combination of a conditioned audiostimulus and light stimulus (reinforcement) was used. The 500-cps audio stimulus was 40—50 db above threshold. The duration of both stimuli was three sec, with a 60 sec interval between stimuli. This arrangement facilitated a study of the trace reaction and its time factor. In discussing the results of this study, it was stated that the data did not provide evidence of a biological clock phenomenon in any one structure of the brain. The dynamics of electrographic reactions during the formation of a link between coupling

Card 1/2

ACC NR: AP7000908

stimuli was described and the possible time mechanisms of the human brain were discussed. Orig. art. has: 3 figures. [CD]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 014/ OTH REF: 013/ ATD PRESS: 5109

Card 2/2

VORONIN, L.G.

Two types of orientation reflex. Fiziol. zhur. 50 no.8:951-957 Ag '64. (MIRA 18:12)

1. Kafedra fiziologii vysshey nervnoy deyatel'nosti Gosudarstvennogo universiteta imeni Lomonosova, Moskva.

L 7719-66 EWT(1)/FS(v)-3 DD

ACC NR: AP5025767 SOURCE CODE: UR/0247/65/015/005/0831/0837

AUTHOR: Voronin, L. G. (Moscow); Doronin, G. P. (Moscow)

35
B

ORG: none

TITLE: Using the method of chain motor conditioned reflexes to study the effect of a rarefied atmosphere on CNS functions

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 15, no. 5, 1965, 831-837

TOPIC TAGS: animal physiology, conditioned reflex, reflex activity, CNS hypoxia

ABSTRACT: The higher nervous activity of ten white rats exposed to pressure-chamber altitudes of 3000—7000 m was studied by observing shifts in their chain food-procuring reflexes. The results of the studies are given in Fig. 1 and Table 1. It was

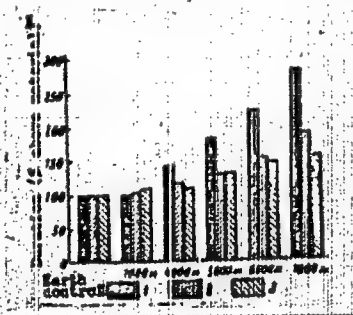


Fig. 1. Change in the duration of various components of the chain food-procuring reflex in rarefied atmospheres

1 - First component; 2 - second; 3 - third.

Card 1/2 UDC: 612.833.11+612.27

Table 1. Duration of various components of the chain motor reflex in rarefied atmospheres (sec)

Altitude (m)	Duration of motor reactions (M ± m)			
	1st component	2nd component	3rd component	Total time
0*	1,38±0.04	1,54±0,03	1,37±0,02	4,29±0,07
3000	1,32±0,16	1,58±0,10	1,42±0,03	4,32±0,24
4000	1,91±0,18	1,61±0,06	1,48±0,04	5,10±0,22
5000	2,54±0,34	2,10±0.10	1,86±0,08	6,50±0,31
6000	3,17±0,34	2,29±0,09	1,95±0,10	7,41±0,43
7000	3,62±0.59	2,93±0,42	2,11±0,17	8,66±1,04

* Control

concluded that, at altitudes of 4000—7000 m, the complicated system of chain motor conditioned reflexes is significantly disturbed. The development of protective inhibition during acute anoxia leads to disruption of the components of food-procuring movements while elementary analytical processes and the synthesis of conditioned stimuli are maintained. Using this type of conditioned reflex, it is possible to study the mechanism of complex analytical-synthetic activity in the cerebral cortex. It is felt that this method is sufficiently precise for general studies of how various environmental factors influence the higher nervous activity of animals. Orig. art. has: 1 table and 2 figures. [CD]

L 7719-66
ACC NR: AP5025767

SUB CODE: LS/ SUBM DATE: 05Sep64/ ORIG REF: 015/ OTH REF: 00 / ATD PRESS: 4141

Card 3/3

ASRATYAN, E.A.; VORONIN, L.G.; GRASHCHENKOV, N.I.; PARIN, V.V.; RUSINOV, V.S.; SOKOLOV, Ye.N., prof.; CHERNOV, A.G.; NIKOLAYEV, V.R., red.

[Problems of contemporary physiology] Problemy sovremennoi fiziologii. Moskva, Izd-vo "Znanie," 1965. 31 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.11) (MIRA 18:6)

1. Vsesoyuznoye fiziologicheskoye obshchestvo imeni I.P. Pavlova. 2. Chlen-korrespondent AN SSSR (for Asratyan, Grashchenkov). 3. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Voronin). 4. Deystvitel'nyy chlen AMN SSSR (for Parin). 5. Chlen-korrespondent AMN SSSR (for Rusinov).

VORONIN, L.G.; TUSHMALOVA, N.A.

So-called conditioned reflexes in Planaria. Zhur. evol. biokhim. i fiziol. 1 no.1:98-103 Ja-F '65. (MIRA 18:6)

1. Kafedra fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

VORONIN, L.G. (Moskva); DORONIN, G.P.

Study of the effect of rarefied atmosphere on the functions of the central nervous system by the method of chain motor conditioned reflexes. Zhur. vys. nerv. deiat. 15 no.5:831-837 S-O '65. (MIRA 18:11)

L 2029-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c)/JD

ACCESSION NR: AP5018374 UR/0114/65/000/007/0033/0034

669.15:(536.2+537.11)

AUTHOR: Neymark, B. Ye. (Candidate of technical sciences); Voronin, L. K. (Engineer)

TITLE: Thermal conductivity and electric resistivity of EI211 steel

SOURCE: Energomashinostroyeniye, no. 7, 1965, 33-34

TOPIC TAGS: heat resistant steel, chromium nickel steel / EI211 steel

ABSTRACT: Measured within 20—1000C by the Jäger-Diesselhorst method, the electric resistivity, thermal conductivity, and Lorentz number of heat-resistant austenitic chromium-nickel EI211 steel are briefly reported. Steel composition: 0.2% C, 2—3% Si, 0.7—1.2% Mn, 19—22 Cr, 13—15 Ni. A table and curves present the data obtained with these errors: ±0.5%, ±1.5%, and ±2% for the resistivity, Lorentz number, and thermal conductivity, respectively. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, TD, EM

NO REF SOV: 000 OTHER: 000

Card 1/1

VORONIN, L.L.; SKREBITSKIY, V.G.

Intracellular study of neurons of the cerebral cortex in nonanesthetized rabbits. Biul.eksp.biol. i med. 59 no.5:3-7 '65. (MIRA 18:11)

1. Elektrofiziologicheskaya laboratoriya (zav. - kand.med. nauk M.Ya.Rabinovich) Instituta mozga (direktor - deystvitel'nyy chlen AMN SSSR S.A.Sarkisov) AMN SSSR, Moskva. Submitted August 9, 1964.

VORONIN, L.L.

Some problems of the electrophysiology of neurons of the cerebral cortex. Zhur. vys. nerv. deiat. 14 no.5:923-933 S-O '64. (MIRA 17:12)

1. Institute of Brain, U.S.S.R. Academy of Medical Sciences, Moscow.

BRUSKOV, V.I.; VORONIN, L.L.

Effect of stretching on the rest and action potentials in single crab muscle fibers. Biofizika 7 no.4:491-493 '62. (MIRA 15:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(MUSCLES) (CRABS)

SKREBITSKIY, V.G.; VORONIN, L.L.

Inhibition of induced activity of the neurons of the visual cortex during the action of sound stimulus. Dokl. AN SSSR 160 no.4:972-975 F '65. (MIRA 18:2)

1. Institut mozga AMN SSSR. Submitted June 9, 1964.

ACCESSION NR: AP5006860 S/0020/65/160/004/0972/0975

AUTHOR: Shrebitskiy, V. G.; Yoromin, L. L.

TITLE: Inhibition of induced neuron activity of the visual cortex during the action of an auditory stimulus

SOURCE: AN SSSR. Doklady, v. 160, no. 4, 1965, 972-975

TOPIC TAGS: neuron activity, visual cortex, extraneous stimulus, [illegible] inhibition, activity, superliminal reticulocortical impulse, [illegible], masking, neuron discharge

ABSTRACT: It is widely accepted that the sudden presentation of an extraneous stimulus inhibits conditioned reflex activity and [illegible] that this is of a neuronal nature. A missing link in this assumption, however, is the lack of data on the reorganization of the induced activity of individual neurons of cortical regions of the analyzers during the action of an extraneous stimulus. The authors accordingly recorded the variation in the response of [illegible] neurons of the visual zone of the cortex of seven non-[illegible] rabbits when exposed to combined auditory (loud tones of different pitch, 300 to 1000 cps) and visual (light

Card 1/3

ACCESSION NR: AP5006660

flickers) stimuli. The extracellular activity of the individual neurons was recorded with steel microelectrodes (tip diameter 2-5) implanted in the brain. 52% of the neurons reacted to the auditory stimulus and 20 of them displayed inhibitory responses. The inhibition had the form of either complete blocking of responses to light or a decrease in the number of response spikes recorded. Contrary to the findings of other investigators, in these experiments the neurons with a low background activity displayed a better response to light. Similarly, while certain investigators assume that the decrease in the amplitude of induced responses during the excitation by extraneous stimuli is a result of the "masking" of the afferent flow of superlimbic reticulocortical impulses from the receptors, the findings of the present authors indicate the existence of another region for the decrease in induced activity, namely, the direct inhibition of cortical neuron discharges by the action of the extraneous stimuli. Orig. art. has: 3 figures, 1 table.

ASSOCIATION: Institut mozga Akademii meditsinskikh nauk SSSR (Institute of the Brain, Academy of Medical Sciences SSSR)

SUBMITTED: 29May64 ENCL: 00 SUB CODE: LS

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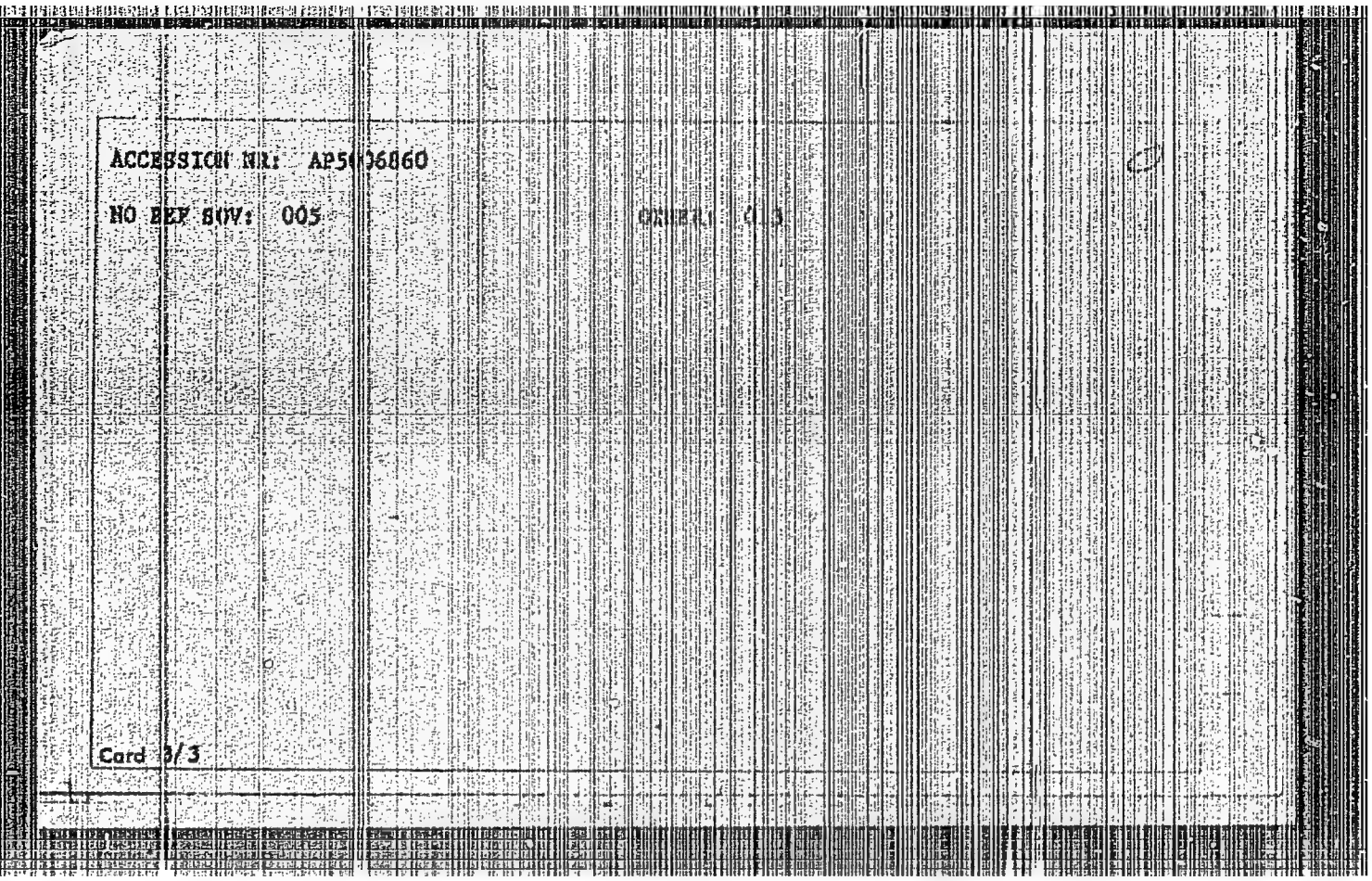

VORONIN, L.L.; LIBERMAN, Ye.A.

Role of bivalent cations in the maintenance of resting potentials in the muscle fibers of river crayfish. Biofizika 9 no.4:451-455 '64. (MIRA 18:3)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

KOROBOV, P.I.; KHLEBNIKOV, V.B.; BORISOV, A.F.; SKOCHINSKIY, A.A.; SHEVYAKOV, L.D.; NEL'NIKOV, N.V.; MELESHKIN, S.M.; MOSKAL'KOV, Ye.F.; POKROVSKIY, M.A.; KAPLUNOV, R.P.; BOGOLYUBOV, B.P.; ARUTYUNOV, N.B.; BOYKO, V.Ye.; BRINZA, N.N.; FEDOROV, V.F.; AGOSHKOV, M.I.; NAZAROV, A.V.; VOROBIN, L.N.; IPATOV, P.M.; NAZAROV, P.P.; SLUTSKAYA, O.M.; CHERNENKO, M.B.; FABINOVICH, V.I.; SELIVSKIY, V.N.; TROITSKIY, A.V.; GOL'DIN, Ya.A.; DZHAPARIDZE, Yo.A.; ZHURAVLEV, S.P.; KUZNETSOV, K.K.; MALEVICH, N.A.; MARIENKO, M.P.; MARTYNOV, G.P.; MATAFOV, P.F.; PETTSEV, M.A.; ROSSHIT, A.F.; RYASHOV, A.A.; SOSEDOV, O.O.; VINOGRADOV, V.S.; ZUBAREV, S.N.; SHAFARENKO, I.P.

Nikolai Nikolaevich Patrikeev; an obituary. Gor.zhur. no.6:76 Je '60. (MIRA 14:2)

(Patrikeev, Nikolai Nikolaevich, 1890-1960)

VORONIN, L.N.

Cars with a 25-ton capacity in the "Grengesberg" Mins. Cer. zhur. no.8:74-75 Ag '63. (MIRA 16:9)
(Sweden—Mine railroads—Cars)

VORONIN, L. N.

Crushing moist clayey iron ores; from foreign literature. Gor. zhur. no.10:68-70 O '62. (MIRA 15:10)

(Iron ores) (Crushing machinery)

VORONIN, L.N., gornyy inzh.

Transportation in the iron-ore pits of the Mesabi Range (from foreign periodicals). Gor. zhur. no.7:58-60 Jl '61.
(MIRA 15:2)

(Mesabi range--Mine haulage)

VORONIN, L.N., inzh.; POKROVSKIY, M.A., inzh.

Boring and blasting in a taconite mine. Gor.zhur. no.5:34-37 My '60.
(MIRA 14:3)

(United States—Taconite)
(Boring) (Blasting)

VOLOHIN, L.N., inzh.-mekhanik

Electric trucks in U.S. open-pit mines. Gor.zhur. no.6:21-22 Je '60.
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(United States--Mine haulage)

KOZ'MIN, Filipp Kuz'mich; VORONIN, L.N., gornyy inzh., retsenzent; VAYNBERG, P.B., retsenzent; SMOLDYREV, A.Ye., red.; ISLENT'YEVA, P.G., tekhn.red.

[Mine air ducts; design, arrangement and use] Rudnichnye vozdukhoprovody; raschet, ustroistvo i ekspluatatsiia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1959. 125 p. (MIRA 12:12)
(Mine ventilation)

KRASOTKINA, N.I.; VORONIN, N.I.; LEVCHUK, V.V.

Products made of siliconized graphite for the protection of immersion thermocouples during the measuring of temperature of liquid steel. Ogneupory 29 no. 5:232-237 '64. (MIRA 17:7)

1. Vsesoyuznyy institut ogneuporov.

SASON, N.S., inzh.; VORONIN, L.N., inzh.

"Modern equipment for crushing and grinding ores" by V.I.Fadeev. Reviewed by N.S.Sason, L.N.Voronin. Gor.zhur. no.2:78-80 F '61. (MIRA 14:4)

(Ore dressing--Equipment and supplies) (Fadeev, V.I.)

MIROSHENKO, Svyatoslav Stepanovich; GULEMIN, Nikolay Mikhaylovich; TIKHONOV, N.V., kandidat tekhnicheskikh nauk, retsenzent; VORONIN, [illegible], gornyy inzhener, retsenzent; VAYNBERG, P.B., gornyy inzhener, retsenzent; SMOLDYREV, A.Ye., redaktor; ATTOPOVICH, M.K., tekhnicheskiy redaktor

[Operator of the PML loading machine; tekhtbook for industrial and technical instruction of workers] Mashinist pogruzochnoi mashiny PML; uchebnoe posobie dlia proizvodstvenno-tekhnicheskogo obucheniia rabochikh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 190 p. (MLRA 10:10)
(Mining machinery)

VORONIN, L.N., inzh.-mekhanik

Models of new mining equipment at the Exhibition of Achievements of the National Economy of the U.S.S.R. Gor. zhur. no.12:43-47 D '61. (MIRA 15:2)

(Mining machinery)

VORONIN, L.N., inzh.

The ore mining industry at the Exhibition of the Achievements of the National Economy of the U.S.S.R. Gor.zhur. no.1:75-76 Ja '65. (MIRA 18:3)

VORONIN, L.M.

Automatic dumping of railroad cars loaded with pellets (from "Engineering and Mining Journal," no.7, 1962). Gor.zhur. no.2: 70-71 F '63. (MIRA 16:2)
(Minnesota--Mine railroads--Cars)
(Loading and unloading--Technological innovations)

VORONIN, M.A., doktor tekhn.nauk (Moskva)

Searching for the traces of civilization in other worlds.
Priroda 51 no.11:78-83 N '62. (MIRA 15:11)
(Plurality of worlds)

VORONIN, M.A.; DMITROVSKIY, A.N.; KLYUSHENKOV, I.S.; KOMOGORTSEV, P.Ya.; MAYKOV, N.K.; OSIPOV, L.L.; PENKIN, I.S.; SHKURATOV, I.G.; FEDOROV, V.F.; CHERTKOV, Kh.A., red.; EBERLIN, K.Z., red.izd-va; BOBROVA, V.A., tekhn.red.

[Handbook on materials and equipment] Spravochnik po materialam i oborudovaniiu. Moskva, Izd-vo "Rechnoi transport." Vol.2.[Equipment] Oborudovanie. 1959. 607 p. (MIRA 13:3)
(Ships--Equipment and supplies)
(Harbors--Equipment and supplies)

VORONIN, M.A.

PAIN, B.S.; MECHAYEV, V.V., redaktor; VORONIN, M.A., retsenzent; SHOMERO, A.I., retsenzent; VITASHKINA, S.A., redaktor; VOLKOVA, Ye., tekhnicheskiy redaktor.

[Efficient utilization of electric equipment in factories; work practice of the Limenda shipbuilding plant in increasing the power factor of electric installations] Ratsional'noe ispol'zovanie elektricheskogo oborudovaniia zavodov; iz opyta raboty Limendskogo zavoda po povysheniiu koeffitsienta moshchnosti elektricheskikh ustanovok. Moskva, Gos. izd-vo vodnogo transporta, 1954. 55 p. (MLRA 7:11)
(Electric engineering)

MAKAROV, G.N.; KOROLEV, Yu.G.; VORONIN, M.A.; BOGOSLOVSKIY, Yu.N.; FOFONOVA, M.Ya.

Effect of various factors on the yield of volatile products from the carbonization of a thin loosely-embedded layer of the coal charge MKGZ. Trudy MKHTI no.28:73-78 '59. (MIRA 13:11)
(Coal--Carbonization)

VORONIN, M.D.

Laying two slivers in one roving can on the LPS-51 roving machine. Tekst.prom. 25 no.11:32-33 N '65. (MIRA 18:12)

1. Nachal'nik tekhnicheskogo otdela Furmanovskoy fabriki No.2.

BELOUSOV, M.S., kand. ekon. nauk, dots.; VORONIN, M.G., kand. ekon. nauk; DUNDUKOV, G.S., kand. ekon. nauk, dots.; KAMYSHANOV, P.I., kand. ekon. nauk; KOLESOV, V.S.; KUPRIYENKO, A.N., kand. ekon. nauk; PEN'KOV, Ye.G., kand. ekon. nauk, dots.; SOLONEVICH, F.F., Prinimal uchastiye SMORODIN, M.B.; MUKHIN, N.A., retsenzent; FEDOTOV, G.N., retsenzent; STARCHAKOVA, I.I., red.; KIRAKOZOVA, N.Sh., red.; MIKHAILI, D.M., tekhn. red.

[Accounting in commerce] Bukhgalterskii uchet v torgovle. [By] M.S.Belousov i dr. Moskva, Gostorgizdat, 1963. 528 p. (MIRA 17:1)

1. Prepodavateli kafedry bukhgalterskogo ucheta Moskovskogo instituta narodnogo khozyaystva im. G.V.Plekhanova(for Belousov, Voronin, Dundukov, Kamyshanov, Kolesov, Kupriyenko, Pen'kov, Solonevich). 2. Glavnyy bukhgalter Soyuza potrebitel'skikh obshchestv RSFSR (for Fedotov).

GAKHENSON, Boris Semenovich, dotsent; ZORIN, Stanislav Pavlovich, inzh.; VORONIN, M.I., inzh., red.; MIKHAYLOVA, L.G., red. izd-va; SHIRKOVA, R.Ye., tekhn. red.

[The TDT-75 timber skidding tractor] Trelevochnyi traktor TDT-75. Pod obshchei red. M.I.Voronina, Moskva, Goslesbumizdat, 1962. 292 p. (MIRA 16:6)
(Tractors) (Lumber--Transportation)

VORONIN, M.I.

Development of technological processes in the planning of railroads in Russia. Trudy po ist.tekh. no.11:49-67 '54. (MLRA 7:9)
(Railroads--History)

VORONIN, M.I., kandidat tekhnicheskikh nauk, dotsent.

Effect of the finishing quality on alteration of transverse strength in combined cylinders. Trudy MVTU no.66:50-59 '55. (MLRA 9:8)

(Strains and stresses) (Metals--Finishing)

VORONIN, M.I.

VORONIN, M.I., kandidat tekhnicheskikh nauk, dotsent

Organization of the Mechanics Laboratory in the Institute of the Corps of Engineers of the Communications System and its role in the construction of the first railroad in Russia. Sbor. LIIZHT no.148:5-18 '55. (MLRA 8:10)

(Testing laboratories) (Railroads--History)

15-57-10-13471

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 1 (USSR)

AUTHORS: Gumenskiy, B. M., Komarov, N. S., Voronin, M. I.

TITLE: History of Geological Investigations Related to the Construction of Roads in Russia from 1817 to 1870. (K istorii geologicheskikh issledovaniy dlya stroitel'stva dorog v Rossii v 1817-1870 gg)

PERIODICAL: Tr. In-ta istorii yestestvozn. i tekhn. AN SSSR, 1956, Nr 7, pp 3-22

ABSTRACT: The origin of that branch of Russian engineering geology which serves in the construction of roads can be traced to the very beginning of the nineteenth century. First efforts of the engineering-geological nature in this realm were made by the builders of highways and railroads -- the students and professors of the St. Petersburg Institute of Means of Communication of the

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History of Geological Investigations (Cont.)

Corps of Engineers, established in 1810. Even before that time a large amount of experience had been collected in dealing with the soils in various phases of construction work. Earliest theoretical engineering-geological works of a general nature and pertaining to road construction were presented in the textbooks of this Institute (starting with 1818). Intensification of this activity can be observed between 1817 and 1834 and was related to the construction of the St. Petersburg-Moscow highway. Such intensification recurred at the end of the 1820's in relation to the construction of other Russian highways. The author notes the part played in these investigation by M. S. Volkov, professor of the Institute of Means of Communication at the Corps of Engineers, the author of "A Course of Constructions" and of "Notes on Soils Investigations to be Conducted in Structural Work" (1836). During the surveys along the course of the St. Petersburg-Moscow highway, excavation, drilling and construction of engineering-geological cross sections were broadly applied. With the acceleration of highway building in Russia, more

History of Geological Investigations (Cont.)

and more attention was being paid to geology and mineralogy in the curriculum of the Institute within the program of its "Construction Course" (particularly after the 1830's). Theoretical knowledge of construction and engineering geology was further developed during the building of the first main railroads in Russia. Construction of the St. Petersburg-Moscow railroad (1842-1851) represented a fine source of learning for the Russian engineers of Means of Communication. During the explorations along this right-of-way a contract was established between the engineers of Means of Communications and the geologists and mining engineers (Miller, Pander, Samoylov). In 1843 a field course in geology was introduced at the Institute for the engineers of Means of Communications. In 1862 N. I. Koksharov was invited to lecture in mineralogy and geology at this Institute; starting with 1884, the course of geology was taught by I. V. Mushketov. Toward the end of the nineteenth century engineering geology became recognized as an altogether necessary part of the qualifications for construction engineering.

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D. I. Gordeyev

VORONIN, M.I.

25(2) PHASE I BOOK EXPLOITATION SOV/1501

Moscow. Vyssheye tekhnicheskoye uchilishche

Voprosy povyshheniya dolgovechnosti tyazhelonagruzhennykh detaley mashin; sbornik statey (Problems of Increasing the Durability of Heavily Stressed Machine Parts; Collection of Articles) Moscow, Oborongiz, 1958. 94 p. (Series: Its: [Trudy] vyp. 78) 3,200 copies printed.

Ed. (Title page): E.A. Satelya, Honored Worker in Science and Technology, Doctor of Technical Sciences, Professor; Ed. (Inside book); L.A. Kats, Engineer; Ed. of Publishing House: E.A. Shekhtman; Tech. Ed.: I.M. Zudakin; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for scientists, engineers, manufacturing personnel, and instructors and students of vtuzes.

COVERAGE: This is a collection of articles dealing with the following subjects: effect of surface coatings on the dynamic strength of

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parts, surface hardening of parts by coining, effect of metal-working methods on the press-fit connection of parts, cutting of deep, accurate holes, and testing of metals under conditions of high abrasive wear. A brief annotation of each article is given in the Table of Contents. No personalities are mentioned. Bibliographic references are appended to some of the articles.

TABLE OF CONTENTS:

are investigated. Shot-peening method of hardening is also analyzed.

Problems of Increasing the Durability (Cont.) SOV/1501

Saksel'tsev, V.G. Effect of Various Methods of Machining Holes With Large Length to Diameter Ratio on the Wear Resistance 84
Various methods of cutting accurate, deep holes used in hydraulic instrument machining which improve their resistance to wear are discussed.

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SOV-3-58-8-15/26

AUTHORS: Voronin, M.I., and Yelizavetin, M.A., Docents, Candidates of Technical Sciences

TITLE: Up-to-date Graduate Work Planning for Machine Construction Specialties (O sovremennom diplomnom proyekte po mashinostroitel'nym spetsial'nostyam)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 61 - 66 (USSR)

ABSTRACT: By order of the Glavnoye upravleniye politekhnicheskikh i mashinostroitel'nykh vuzov Ministerstva vysshego obrazovaniya SSSR (Main Administration of Polytechnic and Machine Constructing Vuzes of the USSR Ministry of Higher Education) the authors familiarized themselves with the situation existing in preparing graduate work for machine construction at a number of vuzes. They found that much attention is being paid to the development of up-to-date processes and working out of machine designs. The quality of the graduate work is also rising. However, when examining questions dealing with the improvement of graduate work, opinions differed mainly to the size and contents of the graduate work and the methods of its preparation. Present graduate work often consists of constructional, technological, organizational and economical parts which do not intercon-

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nect. This may be due to poor supervision on the part of councils and chairs of the institute and to the fact that the subjects for graduate work and the tasks involved were not considered carefully. In this connection the authors mention the Gor'kovskiy politekhnicheskiy institut (Gor'kiy Polytechnic Institute), and the Moskovskiy aviatsionnyy tekhnologicheskiy institut (Moscow Aeronautical-Technological Institute). They come to the conclusion that the preparation of the graduate work for machine construction specialties does not yet meet increased qualification requirements of future specialists. The authors give some advice for the improvement of the quality of graduate work.

ASSOCIATION: Moskovskoye vysshaye tekhnicheskoye uchilishche imeni N. E. Baumana (Moscow Higher Technical School imeni N.E. Bauman)

22(1) SOV/3-59-4-3/42

AUTHORS: Satel', E.A., Doctor of Technical Sciences, Professor, Voronin, M.I., and Yelizavetin, M.A., Candidates of Technical Sciences, Docents

TITLE: Planning of Vuz Degrees Under Present Conditions

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 4, pp 14-19 (USSR)

ABSTRACT: The training of specialists at higher schools is being reorganized at present. The planning of the diploma design presents an important stage in this training. The state of design planning in several machine building vuzes indicates that in the majority of graduation works, sufficient attention is paid to developing modern machine designs and methods of their production, and that a considerable number of projects are based on realistic themes. This means that on the whole the planning of diploma designs in machine building specialties is satisfactory. However, because of insufficient connection between the higher school and production places, and as the students' training does not fully reflect problems relating to the theory and prospects of development of science

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Planning of Vuz Degrees Under Present Conditions

and engineering, the planning of designs in in several vuzes not in accordance with the requirements. Practice shows that the diploma designs worked out by students of correspondence vuzes more often meet the demands of industry than those prepared by day-time institutes. The authors mention in this connection several complicated technical problems which were sufficiently elaborated in graduation designs handed in to the Vsesoyuznyy zaochnyy politekhnicheskiy institut (VZPI) (All-Union Polytechnical Correspondence Institute). They point out substantial shortcomings existing in both the regular and correspondence vuzes in regard to the graduation designs and indicate the ways how to overcome them. In order to raise the practical value of students' works, it is expedient that a group of students be entrusted with a complicated theme. As an example the authors take an automatic line for machining of electric motor shafts, developed by the Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov (ENIMS) (Experimental Scientific-Research Institute of Metal-

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Planning of Vuz Degrees Under Present Conditions

cutting Machine Tools). In the authors' opinion the graduation design of a future mechanical engineer of various machine building branches should consist of the following basic interconnected parts: designing, technological, and organizational - economical. Safety should also be reflected in the projected machine or technological process, and not in a separate section of the work. In conclusion the authors set forth a number of recommendations which are based on their own practice and the experience of other vuzes.

ASSOCIATION: Moskovskoye vysshoye tekhnicheskoye uchilishche imeni N.E. Baumana (Moscow Higher Technical School imeni N.E. Bauman)

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VORONIN, M.I., kand.tekhn.nauk

First technological specifications for reinforced concrete structures used in transportation. Transp. stroi. 14 no.2:59-61 F '64. (MIRA 17:4)

VORONIN, M.I., kand.tekhn.nauk, dotsent

Causes of damage to permanent joints during the pressing out of their parts. Izv. vys. uchab. zav.; mashinostr. no. 3:118-123 '61. (MIRA 14:5)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche imeni Baumana.
(Metalwork)

VORONIN, M.I., kand.tekhn.nauk

Determining the values of forces needed for a longitudinal displacement of parts. Vest.mash. 42 no.3:69-70 Mr '62. (MIRA 15:3)

(Strains and stresses)

VORONIN, M.I., kand.tekhn.nauk, dotsent

Centennial of the erection of the steel cathedral spire on the Peter and Paul Fortress in Leningrad. Sbor.trud. LIIZHT no.181: 130-143 '62. (MIRA 16:9)

VORONIN, M.I., kand.tekhn.nauk, dotsent

Developemtn of the technological conditions in the design, planning and construction of second tracks in Russia. Sbor.trud.LIIZHT no.199:3-15 '62. (MIRA 16:2)

(Railroads—Construction)

VORONIN, M.I., kand. tekhn. nauk

First technological specifications for designing and building second tracks in Russia. Transp. stroi. 13 no.7:74-75 Jl '63. (MIRA 16:9)

(Railroads—Track)